### **UNITED STATES PATENT APPLICATION FOR**

### DYNAMICALLY CONFIGURABLE **GRAPHICAL USER ENVIRONMENT**

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# DYNAMICALLY CONFIGURABLE GRAPHICAL USER ENVIRONMENT

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[0002] This application claims priority from provisional application "Dynamically Configurable Graphical User Environment", Application No. 60/218,123, filed July 13, 2000, and incorporated herein by reference.

### **Cross-Reference Cases**

[0003] The following applications are cross-referenced and incorporated herein by reference:

U.S. Provisional Application entitled "Notification Device for a Graphical User Environment," by Clayton Wishoff, Serial No. 60/218,095, filed on July 13, 2000; U.S. Provisional Application entitled "Application Container for a Graphical User Environment," by Clayton Wishoff, Serial No. 60/217,919, filed on July 13, 2000; U.S. Provisional Application entitled "Distributed Application Interface and Authentication Process," by Clayton Wishoff, Claudio Werneck and Jim Pearce, Serial No. 60/217,886, filed on July 13, 2000; and U.S. Provisional Application entitled "Software Application Agent Interface," by Clayton Wishoff and Linda Byrne, Serial No. 60/217,916, filed on July 13, 2000.

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### Field of the Invention:

[0004] The invention relates generally to graphical user interfaces for computer systems, and specifically to systems and methods of enhancing the development and usability of such systems.

### **Background of the Invention:**

[0005] The invention relates generally to systems used for creating graphical user environments or interfaces, and specifically to a system and method for creating a configurable graphical user environment.

[0006] With the growth of Internet and satellite communications and the hardware and software which supports the same, there are a number of opportunities for companies which provide services and functionality for communicating information effectively between individuals and entities. By way of example only, one service provider, America Online, provides both Internet access as well as its own content. This provider targets a variety of user bases, including children, and derives most of its revenue from advertising. This provider provides a large amount of content and a user interface for its audience. In addition, this provider can leverage its log-in base network to address the demographics of its user base.

[0007] Another example which is used in schools is the Channel One System. This system operates an advertising-supported educational television service for secondary school students in the United States. Historically, the system brings news and current events for the schools by satellite, generating revenue from advertising interspersed in the programming.

[0008] Yet another example includes the Hughes Electronics System which offers satellite-based broadband Internet access for consumers. The system does not provide its own content. A further

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example of such a system is offered by Disney. This system offers a wide variety of Internet contact provided to children.

[0009] Accordingly, there still exists a need to build a broadband interactive network which is highly configurable and which can address the content and communication needs of a wide variety of private, educational, institutional, commercial and industrial environments.

### **Summary of the Invention:**

[0010] In a computer system, the applications contained therein are typically accessed via a graphical user environment or a graphical user interface (GUI). It is a primary objective of the invention to provide a system and a method for generating such a graphical user environment which may be easily customized using a series of graphical elements selected from a library of graphical elements. It is a further objective of the invention that the graphical environment be stored in such a manner that a developer may readily change its look-and-feel, while an ad user may not have the access rights or tools to alter it. The graphical user environment thus presented to the user is somewhat rigidly configured, yet contains a mechanism whereby the user may change certain aspects of the screen. The library of graphical elements can be modified to add further elements, or change those already present.

[0011] The invention as embodied defines both an interface, and an interface engine. The look, layout and to some extent the behavior of a graphical desktop produced with the invention is defined by a configuration file called a "skin". The skin is passed by an interface engine at runtime, which is communication with a library of graphical elements, produces the visual display. This methodology allows changes to the desktop to be made quickly without any changes to the interface engine itself. Thus, the system is highly customizable and may be adapted for particular users or environments. Skin files provide the

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ability to change the look, layout and behavior of the screen based on information about the user who is logged in, and/or other configurable information available via a series of application interfaces (APIs).

### **Brief Description of the Drawings:**

[0012] The present invention will be described with references to the accompanying drawings, taken in conjunction with the following description wherein,

[0013] Figure 1 illustrates the placement of the Jaguar server within a typical system environment.

[0014] Figure 2 illustrates how components in the Jaguar server system interoperate with each another.

[0015] Figure 3 illustrates a screen display produced by the Jaguar server on parsing the skin file of Appendix A.

[0016] Figure 4 is a flow chart showing how a skin file is loaded by the system.

[0017] Figure 5 illustrates a screen display produced by the Jaguar on parsing an alternate skin file.

[0018] Appendix A is a code listing of an exemplary skin file used to produce the screen display of Figure 3.

### **Detailed Description of the Preferred Embodiment**

[0019] Various embodiments of the invention will now be described with reference to the accompanying figures.

### The Jaguar Graphical User Interface System

[0020] The invention as embodied relates to a series of novel enhancements and modifications for use with a distributed media communications and advertising system. Specifically, in the environment of a school, university, or other similar institution where

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many users may commonly share several user computers, or user machines, there exists current systems and methods to allow an advertiser to send, or otherwise display advertisements of their products or services on the user's computer. The invention describes a unique variant of such a system, together with a number of features which may further be used in other systems, by other vendors, and for other purposes.

The communications and advertising system embodied herein is known as "Jaguar". Jaguar comprises a server element, commonly called the "Jaguar Server", Jaguar or simply the "server". The Jaguar server operates upon the user's machine to generate display screens in accordance with defined rules and variables. Some of these rules may determine a user's access rights, the type of software application available to a user, or the advertising or news media information the user will receive.

The user interacts with the server by means of an agent process, which can for example be a login process, a configuration process, etc. The server similarly interacts with other servers, such as mail servers, and other entities (e.g. software applications), by means of similar agents. One common agent is a browser agent, which allows the user to access the server in a browser or Net-like manner. The desktop environment may in this manner be thought of as a 'Netspace' - a visual space or desktop through which the user interacts with the environment surrounding him.

[0023] An embodiment of the Jaguar system as it may be embodied in a school or educational environment 100 is shown in Figure 1. As illustrated, a Jaguar server 110 is in communication with both a centralized network operations center 120 and a school server 130. Each of these components may have several sub-components, not shown here for clarity. In essence the Jaguar server 110 utilizes information from the Network Operations Center NOC 120 to instruct the

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school server 130 to customize the media, news, or advertising content 135 which the user 105, sees, dynamically and instantly, as determined by the instructions given to the NOC by the advertising/media coordinator 150. A database is maintained by the NOC, both for purposes of validating user logins, storing advertising information, and storing demographic information on each user so as to better target specific media/advertising.

[0024] Focusing more on the Jaguar server, the manner in which it interoperates and communicates with other processes is shown in Figure 2. In this embodiment the Jaguar Server 170 may communicate with a login agent 175 to validate user logins and generate initial screens or Netspaces. A Jaguar client 180 reads skins to dynamically change the look and feel of the usual environment of the fly. Application agents 185, 190, 195 interact with the Jaguar Server, while a Message Trap 200 detects and notifies the user of actionable events. Some agents, such as a Microsoft Word agent 190 allows the Jaguar server to make com calls directly to the application (i.e. Word) itself. The key components of the system are as follows:

# Jaguar Server 170

[0025] The server is COM automated. COM is an architecture for defining interfaces and interaction among objects implemented by widely varying software applications. A COM object instantiates one or more interfaces, each of which exposes zero or more properties and zero or more methods. All COM interfaces are derived from the base class IUnknown. Technologies built on the COM foundation include ActiveX and OLE. The methods the Jaguar Server exposes are used to customize it's look and feel for different users. The Jaguar Server sends events to the client applications using an event sink that was initiated by the client. The server is like the engine of a car, it works on its own but, without a frame and wheels it isn't very useful.

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Configuration Agent is the frame and wheels, and the other clients are like options.

# Jaguar Configuration Agent and Skin File Reader 180

[0026] The Jaguar Server launches the Jaguar Configuration agent (client) at startup. The client then reads the skin file and instructs the server via COM calls to create buttons, menus etc... The client then launches the login agent and any other agents the skin file requests. Any agent that is launched has the responsibility to connect to the server in order to control it. This allows the server to be independent of any agent. It also allows for multiple clients to control and effect changes in the server.

### Other Agents 175, 185, 190, 195

[0027] The other agents in Figure 2 are the login agent, the browser agent and the e-mail agent. All three agents act in the same way as the Jaguar Client except for one major difference. If one of these agents wants to launch an agent itself (i.e. The email agent launches a browser agent) they send a request to the server who launches it. This way all applications are launched in the same manner and can be kept track of by the Server.

### Login Agent 175

[0028] At startup the Configuration reader instructs the Server to launch the Login Agent. The server is primarily disabled (buttons are inactive and no ads are served) until the user has logged in. The login script launches a browser that's soul function is to control the log-in state. Once the user gives a correct username and password the Login

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Agent is hidden until logout and a Browser Agent is launched. When this new agent gets the username and login information in its URL it tells the Server that login was successful and items become enabled in accordance with the instructions from the Skin File. When the user logs-out or it times out then all open applications (except the Server and Configuration Agent) are instructed to close and the Login screen will reappear to log in the next user.

### **Browser Agent 185**

[0029] The Browser Agent contains the Internet browsing window. This agent is used by the server to display browsers that are task specific. The browser was created to support the Multi-browser Architecture. The Multi-browser architecture gives the user the ability to have more than one browser up at a time with its own forward and back state. In Internet Explorer or Netscape Navigator navigating can be cumbersome because all navigation occur in one primary window. There many be times when a user using a search engine finds an interesting site. After poking around awhile on that web site the only way to get back to the search results is to press the back key or icon as many times a had been navigated. With Jaguar the designer can have browsers that perform specific task like searching, e-mailing, updating their calendar etc. each in their own browsers with their own  $\sim$ back/forward state. These windows are independent of any other browser. If the user selects the search button from the desktop (server) the server checks to see if a dedicated browser for search is already running if not it launches one otherwise it brings the search browser to the top. This feature makes users much more efficient and saves time.

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### E-Mail Agent 195

[0030] The E-mail Agent is in one embodiment in charge of controlling the Millenium Office HTML pages but it can be used for other functions. It instructs the server to launch a version of the Browser to be the container of the E-mail. The email agent also controls the e-mail notification icon that may appear on the desktop. This icon on the server will flash (animate) when the user has new unread mail. The email agent is hidden and very small in size. It transparently controls the server's e-mail icon. This is another great example of the flexibility of the Jaguar Architecture.

### Third Party Applications 190

[0031] The paradigm of having an agent that controls the communication between a server and a third party application (as seen in the diagram for Microsoft Word) is very powerful. Any third party application can be added to the ZapMe! product offering by simply installing the application and a very small agent. In the past entire servers would have to be changed in order to add applications. This eliminates many months of testing because the server, which is 90+% of the code, does not change.

### Message Trap 200

100321 The Message Trap traps all system messages and filters the messages related to window sizing and placement. parameters for the area to contain from the server who reads it from the skin file. The message trap also controls the information about the systems idle state. If the user moves the mouse or uses the keyboard then the idle state is reset. The server will log the user out automatically if the idle state is more than a specified value (15 minutes is the default).

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The Server tells the message trap via a function call to set the containment area at a certain location and size. Any attempt to resize or move the windows to a location outside that area will fail. This guarantees advertisers that, while playing, their ads will not be covered up.

### ZapMe! and Jaguar

[0033] Jaguar is the user's primary interface to the ZapMe! netspace and may be referred to as the "desktop". The Jaguar interface is the starting point for all activities within the ZapMe netspace. Imaginative use of color, graphics and animations give the GUI an exciting look, while new and creative controls provide a fun experience. Jaguar also functions in the home market, giving a consistent look and feel to users whether at home or at school.

### ZapMe! Client

The ZapMe! client, the user interface for the ZapMe! netspace, creates a set of features which gives access to the next generation of new technology. These new features and functions are so dynamic and compelling that kids are drawn to maximum use of the ZapMe! netspace. The ZapMe! netspace for school is delivered via satellite to each ZapMe! school. The ZapMe! netspace for the home is distributed via CD-ROM.

[0035] The ZapMe! netspace is a complete solution for the educational and entertainment lifestyle concerns for the targeted age group. This school and home product may be considered the "method of choice" for kids to communicate with their friends and to gather information about the world around them.

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### **Jaguar Features**

### 1. Desktop

[0036] In one embodiment, Jaguar is a window that is 1024 pixels by 768 pixels. This window will cover the entire screen and not have a title bar or borders. In effect it will be a full screen window whose client area extends to the edges of the screen. Jaguar may be set to run primarily in a 16-bit color mode (e.g. 65536 colors). While Jaguar will support 8-bit color mode (256 colors) it will not do so at the expense of the visual appeal of the 16-bit color version. For example, the 8-bit version may use a different set of skins than the 16-bit version so as not to impact the visual appeal of the 16-bit color version. Jaguar will still occupy (or attempt to occupy) the entire screen when the resolution of the Windows desktop is 1024x768 or 800x600.

### 2. Login

[0037] When Jaguar is started, the user is shown a login screen. The login screen resides in the Container Area and its function is to prompt the user for his/her name and password. All other Jaguar user interface features that accept user input will be disabled or display an alert dialog to remind the user to log in with the exception of the Reset (School environment) / Exit (Home environment) button as described in the section titled Exit Button.

### Container Area

[0038] Jaguar is designed to have a large section of the screen reserved for the "Container Area". The Container Area is the only area of the screen where applications launched by Jaguar can create their own windows. Jaguar can be directed to never allow any part of an application window to escape the Container Area. All operations on

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application windows (including moving, dragging, resizing, minimizing, maximizing, etc.) must keep the window constrained to this Container Area. In a school environment, the Container Area is typically set to be 800 pixels by 600 pixels. In a home environment, due to varying Jaguar desktop sizes, the Container Area may occupy an area that maintains the same distance from the Jaguar GUI controls as in the school environment.

### 4. Launch Pad

[0039] In one embodiment Jaguar provides a set of menus called the "Launch Pad" that incorporates the six major categories of activities available to the student, including: Communication, Entertainment, Tools. Lifestyle. eCommerce, and Content. Each menu contains submenu items that can be dynamically added via a configuration file. Menu items may also be added by applications launched by Jaguar. ZapMe! may deem activities on the Launch Pad inappropriate for either the home or school environment in which case the menu item for that activity may invoke a demo and/or promote the version of Jaguar where the option is available. Launch Pad items can include not only activities created in-house by ZapMe!, but activities created by third parties as well, for example MS Word and MS Excel. These third party applications should be well behaved. Well-behaved applications are applications that don't break the paradigm of Jaguar. While not every application will be (or can be made to be) well behaved, Jaguar will be implemented to maximize the possibilities.

### 5. Open Apps Menu

[0040] Jaguar will support a menu that contains a list of all the open (e.g. running) applications. Selecting an item from the menu will

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bring the corresponding application to the foreground. Both Jaguar-aware and non Jaguar-aware applications may be listed in the Open Apps menu.

### 6. History Menu

[0041] Jaguar supports a menu that contains a list of all the documents the user has loaded called the "history". All documents loaded into any Jaquar-aware application running within Jaquar will be automatically added to the History menu, no user interaction is required. The documents can be of a variety of types, including: MS Word, MS Excel (.xls), MS PowerPoint (.ppt), URLs that reference a specific web page. Essentially, any document that can be loaded into a Jaguar-aware application. The menu is hierarchical with the first level displaying a list of applications. The second level displays a list of documents that the corresponding application has loaded. Documents are added to the top of the second level menus such that the most recently accessed documents will be at the top of the menu. document will never be listed twice in the same second level menu, but it is possible for the same document to be in two different second level menus if the document was loaded from two different applications. If a document is already listed, the old item is deleted from the menu before the new item is inserted. When a document is selected from the Document History menu it is loaded back into the application from which it was added (launching the application if necessary) and that application is brought to the foreground in the Container Area. The contents of the History menu are not saved across user sessions. When a user logs out the contents of the History menu is lost.

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### 7. Bookmarks Menu

[0042] Jaguar supports a menu that contains a list of user selected documents called "bookmarks". The documents in the Bookmarks menu can be any document that is included in the History menu. If it's listed in the History menu, then it can be added to the Bookmark menu. When a document is selected from the Bookmark menu, it is loaded back into the application from which it was bookmarked (launching the application if necessary). That application is then brought to the foreground in the Container Area. Each user account can maintain a separate list of bookmarks that are saved across sessions so that the user can logout and then log back in (possibly on another workstation) without any changes to the list of bookmarks. The first three menu items on the Bookmarks menu are reserved for bookmark administration and will be added automatically by Jaguar. Add Bookmark - this menu item will add the current document in the foreground application to the Bookmarks menu. Documents will never be added automatically to the Bookmarks menu. While the application may also have a way to add documents to the Bookmarks menu, a specific action on the part of the user is always required to add a document to the Bookmarks menu. Organize Bookmarks this menu item will navigate to a web page where the bookmarks may be moved, copied and deleted. The third item on the Bookmarks menu is a menu item separator to separate the administration functions from the actual bookmarks.

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### 8. Notification Items

[0043] Jaguar provides the ability to display a set of "Notification lcons". The Notification lcons will be arranged next to a small text display called the "Notification Window". A Notification lcon can be associated with a specific application. An application does not have to

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be listed in the Open Apps menu (e.g. it doesn't have to be running) to have it's Notification Icon displayed. A Notification Icon can be designated to animate to alert the user that the application wants the user's attention. Together with the animating icon, a text message will be displayed in the Notification Window to give the user a more precise indication of the nature of the alert. In one embodiment double clicking or selecting a Notification Icon will bring that application to the foreground (launching the application if necessary). Double clicking the icon will have the same effect regardless of the alert state of the icon; essentially providing a short cut to the application. A single click on a Notification Icon will cancel a pending alert without bringing the application to the foreground. If multiple alerts are pending, the Notification Window can cycle the messages from all the pending alerts. Holding the cursor over a Notification Icon displays the name of the icon unless it is in an alert state. If the Notification Icon is in an alert state, it displays the alert text message instead.

### 9. Logos

[0044] Jaguar provides the ability to display logos. The logos may be animations that can be played, or set to display any frame in the animation, including for example uncompressed AVI files. When double-clicked, a logo can broadcast an event via Jaquar's event mechanism so that specific behaviors can be attached.

### 10. **Ticker Tapes**

[0045] Jaguar provides the ability to display single-line message windows called "Ticker Tapes". A Ticker Tape can display text messages of arbitrary length, regardless of the size of the Ticker Tape window. A message will scroll smoothly across the Ticker Tape until the

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entire message is completely out of sight. When double-clicked, a Ticker Tape can broadcast an event via Jaguar's event mechanism so that specific behaviors can be attached.

# 11. Dynamic Billboard

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"Dynamic Billboards". A Dynamic Billboard displays advertisements and other HTML content to the user. The content displayed by the Dynamic Billboard will be dynamically configurable by ZapMe!. At no time is the Dynamic Billboard obscured by any other piece of Jaguar. Jaguar does not interfere or enhance the operation of the HTML window. The only exception is if the HTML window tries to create a new window, in which case Jaguar will redirect the navigation that attempted to leave the HTML window to the same URL but using ZapMe!'s proprietary browser. If the target of the navigation (the target is specified in the HTML code that tried to open the new window) is "ZapMeLaunch" (case sensitive), then the URL is assumed to be the name of a program which is then launched in the Container Area.

# 20 12. Date and Time

[0047] Jaguar displays both the date and the time to the user. Both the date and time can be the current date and time as reported by the computer (local time) or one of a variety of worldwide time zones. The format the date and time are displayed in is dynamically configurable by ZapMe!

# 13. About Box

[0048] Jaguar can display an "about" box, which contains, for example: The name and version number of the skin; Jaguar's version

number; the name of the workstation Jaguar is running on; the IP address of the workstation Jaguar is running on; the IP address of the school server where Jaguar is running; the screen name of the student logged in; and a copyright message.

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### 14. Idle Time

[0049] After a dynamically configurable amount of time, Jaguar can be set to enter an idle mode. Jaguar will exit this idle mode if there is any keyboard or mouse activity. There is no built-in action upon entering or exiting idle mode; events are sent via Jaguar's event mechanism so that specific actions can be taken.

15. Background Bitmap

[0050] The user can set a specific bitmap to be the background of their user interface. This background is the basic element in which all other buttons, menus, etc. are placed.

Skin Files

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[0051] Jaguar provides the ability to configure the desktop via a text file called a skin. The skin file provides the ability to create Jaguar GUI objects and attach pre-defined actions to various events that the objects generate. Using skin files, it is possible to create a desktop with a particular look, layout and behavior without making code changes to Jaguar.

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[0052] Skin files also provides the ability to change the look, layout and behavior based on information about the user who's logged in, other configurable information available via and/or Jaguar's Configuration API.

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[0053] While the skin file is text-based, it is stored in an encoded format so that inadvertent and/or malicious changes can not be made by non-ZapMe! personnel. The skin file may include and/or exclude any of Jaguar's GUI features.

Logging

[0054] Jaguar logs all user activity to a file whose location is dynamically configurable by ZapMe!.

### **Architecture**

[0055] Since the list of activities that Jaguar supports is not static, Jaguar needs to be expandable in a manner that is elegant and easy to maintain. Allowing a team of engineers to simultaneously work on different features without interfering with each other. To do this Jaguar follows a client/server model using the COM Automation architecture. Jaguar itself will play the role of the server, while the activities (also referred to as applets) are com clients. Jaguar is a separate executable from the applets and each activity is implemented as a separate applet as well. This allows not only for individual development of each applet, but also allows us the creation of new applets, and therefore new activities, without having to modify Jaguar.

[0056] To allow the applets to communicate with Jaguar, Jaguar supports a variety of methods that enable the applets to manipulate the proprietary features of the Jaguar interface. These methods may be invoked using COM Automation technology. In addition, the applets will be notified of actions on the Jaguar interface though the use of COM events and event sinks.

[0057] Jaguar plays a central role in the user's experience. The user interacts with Jaguar to select among a variety of activities. In

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addition, Jaguar plays the role of coordinator allowing these activities to peacefully co-exist, not only with each other, but also with the proprietary features of the Jaguar interface. To do this Jaquar communicates with the applets providing the activities either directly. through a COM interface that the applet exports via Automation, or indirectly by hooking system services and filtering and/or translating messages sent to the applets by Windows itself. Applets that conform by providing a COM Automation interface, or that can be made to conform by hooking system services, are said to be well behaved. Well-behaved applets are applets that can be programmatically made to do the following: stay within the Container Area; be brought to the foreground; be minimized and restored; add documents they load to the History menu; bookmark documents that are currently loaded; load a specified document.

[0058] The challenge comes when 3rd party applets, applets not written by ZapMe! that don't communicate directly with Jaquar, are incorporated into Jaguar. Solutions to seamlessly integrate 3rd party applets can come from one of two directions:

[0059] The first solution involves hooking system services to monitor the activity of the 3rd party applet. This method can be used to monitor and act upon windows created by the applets. To that extent, constraining an applet to the Container Area, bringing it to the foreground, minimizing and restoring windows can be accomplished by filtering and altering certain messages sent to the applet's windows. Monitoring which documents are loaded by an applet and forcing an applet to load a particular document, while possible, are not well suited to hooking system services; that's where the second solution comes in.

[0060] The second solution involves creating an applet, called an agent, to act as a translator between Jaguar and a 3rd party program, referred to as the target of the agent. In this way, Jaguar doesn't need

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to know the specifics of 3rd party programs, it treats the agent just like any other applet, and it's the agent's job to make sure that the 3rd party program is well behaved. The methods that Jaguar supports are grouped into interfaces. Each interface provides access to a particular feature of Jaguar; most of which provide access to the proprietary features of the Jaguar interface such as notification icons and ticker tapes. By flexible interfaces, Jaguar creates a strong base on which to build.

### Menu Interface

[0061] The menu interface allows access to the standard menus, which are guaranteed to exist, as well as allow an applet to create their own menus. Three different objects, menu buttons, menus and menu items define the menu interface.

[0062] Menu buttons are the anchor points for menus. Menu buttons are displayed on the screen and when pressed show their associated menu. It's also possible to create a menu button without a menu, in which case the menu button acts like a simple button. Menus are the centerpieces of the menu interface. Menus are simply containers that hold menu items. Menu items are where all the action takes place. Menu items can either perform generic actions, or they can have associated menu, in effect creating a sub menu.

[0063] Menu items don't have a preconceived idea of what will happen when they are selected (with the exception of a menu item that has an associated sub menu); they merely fire events back to the owner. It's the owner's responsibility to take appropriate action when they receive the event from the menu item. In this way, actions on menus can be whatever an applet desires. Jaguar uses the menu interface to create the Launch Pad; a set of menus that initiate activities.

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There are six main menus that make up the Launch Pad: Communication; Entertainment; Tools; Lifestyle; eCommerce; Content.

[0064] While Jaguar initially populates the Launch Pad menus, they are also be available to applets. Since Jaguar created the menus, the applets will not know the handles of the menus, which is required to add menu items to them. To accommodate this, the menu interface also accept a predefined menu ID (each Launch Pad menu will have a separate ID) in place of a menu handle.

# **History Menu Interface**

The History menu contains a list of documents that the user has loaded. The menu is maintained automatically by Jaguar. No special action is required on the part of the user to add items to the History menu. Each document that is loaded by an application within Jaguar is added to the History menu. The History menu interface will prevent the menu from growing too long by automatically deleting older items from the menu. Selecting a document from the History menu will cause that document to be displayed in the foreground.

[0066] The History menu interface is implemented as a thin layer on top of the Menu interface to support the proper rules when inserting items into the History menu. These rules include that: New items are always inserted at the top of the menu, such that items accessed more recently will be at the top of the menu. When adding a document that already exists on the menu, the old menu item is deleted before the new menu item is added. When adding items to the History menu a normal menu item is returned. This menu item can be used just like any other menu item and be passed to any method listed in the Menu interface that takes a menu item.

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[0067] The menu items returned by the History menu interface will not fire events back to the application that added the menu item because it's very likely that the application that added the menu item is no longer running. Instead, Jaguar determines if the application is still running. If the application is running the document name is sent via a ZapLoadDocument event to the application. If the application is not running, it is re-launched with the name of the document on the command line.

### **Bookmark Menu**

[0068] The Bookmark menu contains a list of documents that the user has selected. Adding an item to the Bookmark menu requires a specific action on the part of the user. Any document that is loaded by an application within Jaquar can be added to the Bookmark menu. The Bookmark menu can have a hierarchical structure to help organize the user bookmarks. Selecting a document from the Bookmark menu will cause that document to be displayed in the foreground.

[0069] The Bookmark menu interface is implemented as a thin layer on top of the Menu interface to support features specific to the Bookmarks menu. These features include: such as inserting at the proper position; adding new bookmarks at the server's request (as opposed to the clients' initiative); editing and organizing the contents of the bookmarks menu.

[0070] When adding items to the Bookmark menu a normal menu item is returned. This menu item can be used just like any other menu item and be passed to any method listed in the Menu interface that takes a menu item.

[0071] The menu items returned by the Bookmark menu interface will not fire events back to the application that added the menu item

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because it's very likely that the application that added the menu item is no longer running. Instead, Jaguar determines if the application is still running. If the application is running the document name is sent via a ZapLoadDocument event to the application. If the application is not running, it is re-launched with the name of the document on the command line.

### **Open Apps Menu**

The Open Apps menu contains a list of applications that are currently running. Items are automatically added/deleted from the Open Apps menu as applications are launched/closed. Selecting an item from the Open Apps menu will bring that application to the foreground.

[0073] The Open Apps menu interface is implemented as a thin layer on top of the Menu interface to support features specific to the Open Apps menu. These features include such as inserting at the proper position.

[0074] When adding items to the Open Apps menu a normal menu item is returned. This menuitem can be used just like any other menu item and be passed to any method listed in the Menu interface that takes a menu item.

Jaguar, the application doesn't get the events associated with the Open Apps menu items; Jaguar will get them instead. If an application is Jaguar-aware then it will receive a ZapAppToTop event. The application should respond to this event by bringing itself (or its target application in the case of agents) to the foreground. Applications in the Open Apps menu will also be asked to close; this is done by sending their top-level windows a WM\_CLOSE message.

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[0076] Jaguar determines if the application represented by an Open Apps menu item is Jaguar- aware by inspecting the ownerID associated with the menu item. If the ownerID refers to Jaguar, then Jaguar assumes that the application is not Jaguar-aware and attempts to manipulate the application (bring it to the foreground, closing it, etc), by making Window's calls with the application's processID. If it doesn't refer to Jaguar, then Jaguar assumes that it has been updated by the application, and is therefore Jaguar-aware. Jaguar will send the application events to request a specific action. An application updates the ownerID of the menu item by calling ZapOpenAppsItemSetLabel(); therefore, a Jaguar aware application should update its label (even if it just calls ZapOpenAppsItemGetLabel() to get the current value) immediately after being launched.

### **Progress meter**

A progress meter reflects to the user how much of a task has been completed and how much of the task is still left to do. A natural way to look at a progress meter is that it portrays how much of a task is completed via a percentage, 0% meaning that the task has just started, while 100% means that the task has been completed. Hence each progress meter will have a value, from 0 to 100, which represents how much of a task has been completed. This value can be updated manually by calling ZapProgressMeterSetPercentage(), or automatically by calling ZapProgressMeterStartAuto().

[0078] Internally progress meters have two parts. The first part is the progress meter state engine. The state engine is responsible for maintaining the value of the progress meter and updating the value when the progress meter is being updated automatically via a call to ZapProgressMeterAutoStart(). The state engine is responsible for everything but displaying the progress meter on the screen.

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The second part is the progress meter animation engine. The animation engine is responsible for the graphical representation of the progress meter. It takes the current value of the progress meter and displays an image on the screen. Separation and isolation of the state engine from the animation engine is necessary to implement virtual progress meters. A virtual progress meter is a progress meter that doesn't have a visible representation. In other words, a virtual progress meter has a state engine, but not an animation engine.

[0080] Depending on the graphical representation of a progress meters, there may only be one progress meter that is visible at a time. For example, the progress meter may be represented by animating the ZapMe! logo on the Jaguar interface. This means that the single progress meter must be shared by all the applets. Sharing the progress meter is done by creating virtual progress meters when the real progress meter is already being used. A virtual progress meter will fire events and otherwise behave exactly like a real progress meter with the sole exception being that it isn't visible.

### **The Popup Question**

[0081] The Popup Question interface will present a question to the user along with a list of possible answers. Each question will be displayed in a non-modal dialog window within the Container Area. The format of the popup question varies slightly based on the number of possible answers for a question.

### **Container Area**

[0082] Since Jaguar supports various activities and other 3rd party applications, an area of the desktop is needed for these activities to display their own windows and present their own GUIs to the user.

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However, Jaguar will not allow any of these windows to overlap, or obscure, any other pieces of Jaguar. To accomplish this, an area of the desktop is set aside for these windows to reside. This area is called the Container Area.

[0083] The Container Area represents a large portion of the Jaguar desktop and is the only area where non-Jaguar windows may move about freely. Non-Jaguar windows may not leave the Container Area and attempts to move and/or resize (either manually or programmatically) these windows such that they extend past any boundary of the Container Area will not succeed. Inside the Container Area, however, Jaguar and non- Jaguar windows may be moved, resized, maximized, minimized, overlap, etc. such that the look and feel of the Container Area is that of the standard Windows desktop.

# **Dynamic Billboard**

[0084] The Dynamic Billboard Interface provides the applets with a mechanism to display content to the user that can not be obscured. Dynamic Billboards appear on the Jaguar desktop, but outside of the Container Area so that the user's windows can not obscure them. Dynamic billboards are based on Internet Explorer ActiveX control and can display HTML content.

[0085] Jaguar will not interfere or enhance the operation of the HTML window. The only exception is if the HTML window tries to create a new window, in which case Jaguar will redirect the navigation that attempted to leave the HTML window to a Browser Agent window, displayed inside the container area.

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### **Ticker Tape**

[0086] The Ticker Tape Interface provides the applets with a mechanism to display messages to the user. The messages scroll smoothly across a single-line text window in a round- robin fashion. The caller has no control over when a message added to a ticker tape is actually displayed, but is informed when the message is displayed.

### **Notify Item**

[0087] The Notify Item Interface provides the applets with a mechanism to notify the user of events that need a response or immediate attention. A notify item represents itself on the Jaguar desktop as a small icon. To notify users of events or conditions, small animations are played in place of the icon and a message is displayed in a single-line text window called the notify window. Clicking on the notify item's icon cancels all pending alerts and returns the icon to it's original image.

### Clock

[0088] The Clock Interface provides the applets with a mechanism to display the date and time on the desktop.

### Logo

[0089] The Logo Interface provides the applets with a mechanism to display animations on the desktop. The AVI video may contain audio, while the video supports any codec installed on the system.

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# Configuration

The Configuration Interface provides the applets with a [0090] mechanism to store configurable variables. The variables can then be changed by a configuration applet that can be run either locally or remotely. In any case, by isolating the applets from the mechanism that is used to store the data, Jaguar can shield the applets from any recurring changes that must be made to allow remote configuration.

### Office Applications

Several Microsoft Office products and other third-party [0091] applications can integrate with Jaguar, including Word, Excel and PowerPoint. Each of these applications should be well behaved and integrate seamlessly with Jaguar. Being well behaved was discussed in the Architecture Overview at the beginning of this document. There is no interface that directly supports the Microsoft Office applications, rather this section will discuss the interfaces that the agents will use to link Jaguar with the MS Office applications. There are three areas in Jaguar that the agent must attend to; History, Bookmarks and Open The use of any other interface to implement additional Apps. functionality is at the discretion of the agent.

100921 The agents that target the MS Office applications will continue to run, even if the application they target has been closed. The reason behind this is that the agents must respond to menu item events to load documents, launching the target application if necessary. The agent will exit when the user logs out.

### History

[0093] The agent must place each document that is loaded by the application into Jaguar's History menu. This can be done with a call to

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ZapHistoryItemAdd(). In addition, each time a document is brought to the foreground it must be re-added to the History menu so that it is positioned at the top of the History menu. The History menu interface will take care of making sure that duplicates are removed, etc. The agent must also respond to the ZapMenuItemSelected() events that are sent out when items from the History menu are selected. When processing the event, the name of the document associated with the menu item can be retrieved using ZapHistoryItemGetDocument(). Once an item is selected from the History menu it must be brought to the foreground in the application from which it was added. The appletPath parameter (in the call to ZapHistoryItemAd()) should be used to identify the application that needs to load the document, rather than using the extension of the document to identify the application. In this way if two applications can load files of the same type, the document is loaded back into the application from which it was most recently used. For example; both Word and Excel can load files with the extension .xls, so assuming that Excel should load all documents with an extension of .xls is incorrect... Documents that are not currently loaded must be reloaded and then brought to the foreground. Documents listed in the History menu will remain in the History menu even if the document is closed from within the MS Office application. The agent must be capable of dealing with this case as well.

### **Bookmarks**

The agent must add a name of the current document to the [0094] Bookmark menu at Jaguar's request. To do this, the agent must respond to the ZapBookmarkAddRequest() event by calling ZapBookmarkItemAdd() but only if the target application is in the foreground. If the target application is not in the foreground, the event must be ianored. The agent must also respond the

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ZapMenuItemSelected() events that are sent out when items from the Bookmark menu are selected in the exact same way as was done for the History menu. Bringing them to the foreground, reloading if necessary, and using appletPath to determine the proper application.

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### **Open Apps**

[0095] The agent must place the name of the application it targets, not the name of the agent itself, into the Open Apps menu when the target application is started, using a call to ZapOpenAppsItemAdd(). It must also remove this menu item when the application is closed, using a call to ZapOpenAppsItemDelete(). The agent must also respond to the ZapMenuItemSelected() event from the menu item it added to the Open Apps menu by forcing the application to the foreground.

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### Skin Files and the Skin Reader

[0096] A novel feature of the invention comprises the Skin File and accompanying Skin File Reader. The skin file determines, among other things, the graphical 'look and feel' of the users desktop or computer screen, together with the elements that make up that screen.

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In a computer system, the applications contained therein are typically accessed via a graphical user environment or a graphical user interface (GUI). It is a primary objective of the invention to provide a system and a method for generating such a graphical user environment which may be easily customized using a series of graphical elements selected from a library of graphical elements. It is a further objective of the invention that the graphical environment be stored in such a manner that a developer may readily change its look-and-feel, while an ad user may not have the access rights or tools to alter it. The graphical user environment thus presented to the user is somewhat

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rigidly configured, yet contains a mechanism whereby the user may change certain aspects of the screen. The library of graphical elements can be modified to add further elements, or change those already present.

[0098] The invention as embodied defines both an interface, and an interface engine. The look, layout, and to some extent the behavior of a graphical desktop produced with the invention is defined by a configuration file called a "skin". The skin is parsed by an interface engine at runtime, which is in communication with a library of graphical elements, produces the visual display. This methodology allows changes to the desktop to be made quickly without any changes to the interface engine itself. Thus, the system is highly customizable and may be adapted for particular users or environments. Skin files provide the ability to change the look, layout and behavior of the screen based on information about the user who is logged in, and/or other configurable information available via a series of application interfaces (APIs).

[0099] Figure 4 shows in detail how an embodiment of the skin file and its associated reader is implemented. In this embodiment, the server after initialization launches or otherwise starts a configuration client. The client is a specialized agent process, one of whose tasks is to initialize the user's machine with a default desktop or skin, polulating it with the graphical elements, windows and applications specified for that user. In a typical environment the user may have no control over the Server itself, but may have some control (depending on security settings) over the structure of the skin file, or more likely over which skin file the configuration client uses to produce the graphical environment and its accompanying elements.

[0100] In effect, the Server is always in a running or active mode when the user sits down to operate the machine, but the configuration

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client only starts running and loading skin files when the user is ready to log in, and during the remaining user session.

The configuration client determines which skin file is to be [0101] loaded 410. This skin file determines to a great extent how the Server will interact with the user - what the user sees, what the user has access to, what personal information is available for the user, etc. The skin file may be stored in an encoded format on the user's machine, in part to prevent deliberate modification or tampering by the user. During the process in which a skin file reader reads the skin file 415, the skin file itself is decoded 420.

An example of a decoded skin file is shown in Appendix A. [0102]This particular skin file is the one used to create the graphical desktop of Figure 3.

The skin file contains many fixed variables, but may also [0103] contain variables that are initially undetermined. These undetermined variables may be populated with additional user information after the process has completed, wherein additional demographic login information for the specific user may be gathered.

[0104] As part of the reading and decoding process the skin file reader parses the skin file and substitutes for any known fixed variable to generate the screen 427. If the reader encounters an undetermined variable, which it does not yet have a value for, such as, for example, the user's email address, the skin file reader inserts into the skin a Placeholder. As the login process occurs, or as new information is gathered about the users during the course of the session, this Placeholder may be replaced with the appropriate data.

[0105] This novel feature is most useful in allowing the system to be initialized, together with multiple agents or applications, without necessarily knowing the complete set of information required to

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successfully run those agents or applications. The information is instead gathered during the course of the session and substituted for the Placeholder only when needed. For example, an email server application may be initialized without knowing the name of the actual user, but instead using a Placeholder. When the mail application is actually launched, the system substitutes for the Placeholder with the user's name. The process then continues as if the mail server had been initialized traditionally. Objectifying, or making objects of system resources, in this manner allows new or updated agents and applications to be readily installed without having to re-program the Server each time. Further, the skin file may be designed to have store no personal information - Placeholders are used instead, and are only populated after a successful login.

Another unique feature of the invention is the ability to [0106] change the active skin at any time 425. Since the skin determines not just the visual look-and-feel of the user's system, but also which applications the user may access, what permissions they have etc., changing the active skin is analogous to logging in as a different user, albeit dynamically and without having to log out first and log back in.

[0107] The user may choose to load a new skin, perhaps through the use of a pull-down menu or some other selection feature 425. On selecting the new skin, the system automatically clears the desktop and replaces the original skin with the new one 430. The skin file reader then passes the new skin as before (415, 420) to create the new desktop.

A further novel aspect of the skin file is its ability to act as [0108] a state machine in conjunction with the server. Since it acts dynamically, server permissions, options, etc may be dynamically assessed and presented to the user in real-time. For example, in the setting of a school, a younger (perhaps one under 13 years of age) user

Express Mail Label No.: EL 661 693 911 US

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may not be allowed access to an email program. Although the skin file may be generic to all users at that school, the combination of the skin file, its Placeholders, and the demographic information about the user obtained during login, allows the system to dynamically parse all the information and modify the response of the Server or its configuration in real-time. In this example, a 12-year old or younger user would find their demographic information used to tell the Server to not display a mail icon for their use.

[0109] Yet another novel use of the skin file is its ability to change a users environment without having to modify the actual Server. Figure 5 illustrates a graphical screen produced with a different skin file. Along the left-hand side of the screen are a series of images of manufacturers, which in this example link to the particular manufacturer's web site. By altering the skin file, or loading a second skin file having different variables, this series of images may be modified to reflect, for example, a different set of manufacturers. Not only that, but the functions underlying the images may be set to not just connect to the manufacturer's web site but to do something totally different. Server does not "know" which action to take on selecting a particular image - rather the skin file "knows" which action is associated with which image, and the Server assists in displaying this to the user. Alterations to the way the system actually operates may be readily undertaken by changing the skin file alone - the Server can be left unaltered.

### **Industrial Applicability**

### Example of System Used in a School Environment

[0110] The present system is a broadband interactive network used in order to create an educational environment using the latest technology tools and educational resources. This environment is

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particularly directed to schools and school districts. This system connects schools and school districts together through the Internet using satellite communication techniques. The present system is directed to making education more engaging and entertaining and providing a rich media computer experience which is easy to use. The system is expandable into homes which enhances the students' educational experience and creates better communication between students, teachers and parents. As indicated, the system has an easy-to-use and configurable interface that provides access to a multiplicity of Internet sites for indexing, with easy reference with respect to content, applications and services. The system also provides computer and word processing tools in addition to a range of communication tools including a network e-mail program. The present system provides a platform for the school community to engage in important activities, including providing teachers and administrators with access to Internetbased vocational content, cost-effective school e-Commerce solutions, and school fund-raising opportunities.

The present system is easily configurable to a number of [0111] the benefits of networking. other environments with communication, and access to multiple Internet sites. example only, the present system can be configured for just about any type of private, commercial or industrial need. For example, the present system could be configured to meet the needs of participants in the insurance industry, the medical industry, the automobile industry, the finance industry, and many many others. The configurable graphical user environment means that individuals with minimal computer knowledge would be able to configure the system for use in any of the above environments.

[0112] Other features, aspects and objects of the invention can be obtained from a review of the figures and the claims.

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[0113] While the invention has been described herein with reference to a implementation referred to as Jaguar, and particularly with respect to the ZapMe! application; it will be evident to one skilled in the art that the invention may be equally used within other implementations and with other applications.

[0114] It is to be understood that other embodiments of the invention can be developed and fall within the spirit and scope of the invention and claims.

## Appendix A. Code listing of an exemplary skin file

		/***********	***************************************			
		* FILE: DORADOSKIN.SKN				
		* DATE: 5/7/00				
	5	* AUTHOR: ANDREW STAHL				
		•				
		********	***************************************			
		#INCLUDE "RESOURCE.H"	,			
		#INCLUDE "BITMAPS.H"				
	10	#INCLUDE "//CODE/COMMON/JAGUARALIAS	3.H"			
		#DEFINE MENUFONTNAME "ARIAL"				
		#define MenuFontSize 9				
		#DEFINE MENUFONTSTYLE BOLD ITALIC				
ij	15	. #DEFINE MENUFONTCOLOR BLACK				
υŪ						
		#DEFINE MS_WORD	JAGUAR_HOME + "\MSWORD\BIN\MSWORD.EXE"			
Ë		//#DEFINE MS_WORD	"C:\Program Files\eduverse.com\ENGLISH			
ű		PRO WEB EDITION/ENGLISHPROWE.EXE"	•			
	20	#DEFINE MS_POWERPOINT JAG	JAR_HOME + "\MSPOWERPOINT\BIN\MSPOWERPOINT.EXE"			
IЛ		#DEFINE MS_EXCEL	JAGUAR_HOME + "\MSExcel\Bin\MSExcel.exe"			
. ===		#define ZAP_LOGIN	JAGUAR_HOME + "\NETLOGIN\BIN\NETLOGIN.Exe"			
ا <u>ن</u> ا این		#DEFINE ZAP_MAIL	JAGUAR_HOME + "\ZAPMAIL\BIN\ZAPMAILAGENT.EXE"			
LI L. I. A. L.		#DEFINE ZAP_ADDRESSBOOK NOHISTORY	SL_ADDRESSBOOK_URL "(ADDRESSBOOK)" NOCONTROLS			
j D		#DEFINE ZAP_CALENDAR "HTT NOCONTROLS NOHISTORY	P://WWW.ZAPME.COM/CALENDAR/INDEX.HTML" "[CALENDAR]"			
ᅼ		#DEFINE VOLUME_CONTROL	"C:\WINNT\system32\sndvol32.exe" "-t [Volume]"			
	30	#DEFINE DBB_URL "HTTP://SCHOOLSERVER.ZAPME.COM/ADSERVE	:R/COLLATERAL/ADSERVER.HTML"			
		#DEFINE DBB_NL_URL				
		"HTTP://SCHOOLSERVER.ZAPME.COM/ADSERVE				
	35		JAR_HOME + "\Jaguar\Content\FullServer.html"			
	33	#DEFINE DBB_NL_URL_HOME	JAGUAR_HOME + "\Jaguar\Content\FullServer.html"			
		/**************************************				
		[RESOURCEFILE SKINRESOURCES]				
		FILE "DOF	ADOSKIN.DLL"			
	40					
		(Background)				
		RESOURCEFILE SKINRESOURCE	īS .			
		IMAGE IDB_	BACKGROUND			
		IDLETIME IO // MINUTES				
	45	Name "Dor	MADO <sup>u</sup>			
		VERSION "I.O	"			
	45	IDLETIME I O // MINUTES  NAME "DOR	AADO"			

		(Logo)					
		Anchor		TOPLEFT	•		
		XPOSITION		LOGO_X	LOGO_XPOS		
		YPositio	N	LOGO_Y	POS		
	5	Anim		"LOGO.A	vi <sup>u</sup>		
		OnSelec	т	АвоитВ	ox		
		[CONTAINERAREA]					
		Anchor		TOPLEFT			
	10	ХРозіпо	N	CONTAIN	NERLIVE_XPOS		
		YPosition	N	CONTAIN	NERLIVE_YPOS		
		WIDTH		CONTAIN	NERLIVE_WIDTH		
		HEIGHT		CONTAIN	NERLIVE_HEIGHT		
		ACTIVATE	TRUE				
17	15						
ΙŪ		/*****	*****	******	***************************************		
ŧŌ		[FUNCTION CREATE]	[EACHERSTUDENTTT	TTNAME,F	EEDURL)]		
F		IF (EXISTS (ZAPMETEACHERSTUDENTTT))					
₩ I±	20	_	DELETE ZAPMETEA	ACHERSTU	DENTTT		
		Endif					
£		TickerTape ZapMeTeacherStudenTTI					
		LIICKERIA	RESOURCEFILE	SKINRES	•		
[_£	25		BGIMAGE	SKIIIKES	IDB_TIERTHREELIVEAREA		
L			ANCHOR		TopLeft		
Ö			XPosition		TIERTHREELIVEAREA_XPOS		
≐			YPosition		TIERTHREELIVEAREA YPOS		
			WIDTH		TIERTHREELIVEAREA_WIDTH		
	30		HEIGHT		TIERTHREELIVEAREA_HEIGHT		
			Show		TRUE		
			SPEED		2		
			FONTNAME		MENUFONTNAME		
			FONTSIZE		MenuFontSize		
	35		FONTSTYLE		MENUFONTSTYLE		
			FONTCOLOR		MENUFONTCOLOR		
			FEED		FEEDURL		
			ALIAS		ZAP_TICKER_TAPE_ZAPME		
			LOGNAME		TTNAME		
	40	ENDFUNCTION					
		[FUNCTION FINDTEA			<u>.</u>		
		CALL "HTTP://WWW.ZAPME			RSTUDENTTT ("ZAPMETEACHERTT", ESSAGES.HTM," + SUBJECT)		
	45	ENDFUNCTION			, , , , , , , , , , , , , , , , , , , ,		
					·		

BUTTON\_4\_YPOS

YPOSITION

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```
ONSELECT
                                                  NAVIGATE ZAP_CALENDAR
                          LOGNAME
                                                          "CW CALENDAR"
       5
                  [MENUBUTTON CW_NEWSLETTER]
                          RESOURCEFILE
                                          SKINRESOURCES
                          UPIMAGE
                                                  IDB_NEWSLETTER
                                                  IDB_NEWSLETTER_PRESS
                          DOWNIMAGE
                                          IDB_NEWSLETTER_OVER
                          ROLLOVERIMAGE
     10
                          INACTIVEIMAGE
                                          IDB_NEWSLETTER
                          ANCHOR
                                                  TOPLEFT
                          XPosition
                                                  NEWSLETTER XPOS
                          YPOSITION
                                                  NEWSLETTER_YPOS
                          ONSELECT
     15
                  "HTTP://WWW.ZAPME.COM/EDSERVICES/NEWSLETTER/INDEX.HTML"
LOGNAME
                                                          "Cw_Newsletter"
                  [MENU HISTORYMENU]
     20
                          RESOURCEFILE
                                          SKINRESOURCES
                          NORMALIMAGE
                                                  IDB_DROPDOWN_BG
                          FOCUSIMAGE
                                                  IDB DROPDOWN OVER
                                                  ZAP_HISTORY_MENU
                          ALIAS
                          FONTNAME
                                                  MENUFONTNAME
     25
                          FONTSIZE
                                                  MENUFONTSIZE
                          FONTSTYLE
                                                  MENUFONTSTYLE
                          JUSTIFICATION
                                          LEFT
                  [MENUBUTTON HISTORYBUTTON]
     30
                          RESOURCEFILE
                                          SKINRESOURCES
                          UPIMAGE
                                                  IDB_BUTTON_5
                                                  IDB_BUTTON_5_PRESS
                          DOWNIMAGE
                          ROLLOVERIMAGE
                                          IDB_BUTTON_5_OVER
                          INACTIVEIMAGE
                                          IDB BUTTON 5
     35
                                                  TOPLEFT
                          ANCHOR
                                                  BUTTON_5_XPOS
                          XPOSITION
                          YPOSITION
                                                  BUTTON_5_YPOS
                          MENU
                                                  HISTORYMENU
                                                          "HISTORY"
                          LOGNAME
     40
                  [MENU OPENAPPLICATIONSMENU]
                          RESOURCEFILE
                                          SKINRESOURCES
                          NORMALIMAGE
                                                  IDB_DROPDOWN_BG
     45
                          FOCUSIMAGE
                                                  IDB_DROPDOWN_OVER
                          ALIAS
                                                  ZAP_OPENAPPS_MENU
```

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	INACTIVEIMAGE	IDB_BUTTON_8
	Anchor	TOPLEFT
	XPosition	BUTTON_8 XPOS
	YPOSITION	BUTTON_B_YPOS
5	OnSelect	NAVIGATE "HTTP://WWW.AJKIDS.COM/INDEX.ASP?ORIGIN = 200   4"
	LOGNAME	"AB SEARCHENGINE I"
	[MENUBUTTON AB_SEARCHE	<del>-</del>
	RESOURCEFILE	SKINRESOURCES
	UPIMAGE	IDB_SEARCHZAP
10	DOWNIMAGE	IDB_SEARCHZAP_PRESS
	ROLLOVERIMAGE	IDB_SEARCHZAP_OVER
	INACTIVEIMAGE	IDB_SEARCHZAP
	Anchor	TOPLEFT
	XPosition	SEARCHZAP_XPOS
15	YPosition	SEARCHZAP_YPOS
	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/NET/SEARCH/SEARCH.HTML"
	LOGNAME	"AB_SEARCHENGINE2"
٠		
00	/*********	***************************************
20	(MENUBUTTON PT_EMAIL)	
	RESOURCEFILE	SkinResources
	UPIMAGE	IDB_BUTTON_13
	DOWNIMAGE	IDB_BUTTON_I 3_PRESS
25	ROLLOVERIMAGE	IDB_BUTTON_I 3_OVER
25	INACTIVEIMAGE	IDB_BUTTON_ I 3
	Anchor	TOPLEFT
	XPosition YPosition	BUTTON_I3_XPOS BUTTON_I3_YPOS
	ONSELECT	LAUNCH ZAP MAIL
30	LOGNAME	"PT EMAIL"
00	LOGINAME	T_CPAIC
	[MENUBUTTON PT_CALENDAI	स्य
	RESOURCEFILE	SKINRESOURCES .
	UPIMAGE	IDB_BUTTON_I 4
35	DOWNIMAGE	IDB_BUTTON_I 4_PRESS
	ROLLOVERIMAGE	IDB_BUTTON_I 4_OVER
	INACTIVEIMAGE	IDB_BUTTON_I 4
	Anchor	TOPLEFT
	XPosition	BUTTON_I4_XPOS
40	YPosition	BUTTON_I 4_YPOS
	ONSELECT	NAVIGATE ZAP_CALENDAR
	LOGNAME	"PT_Calendar"
	M	
45	[MENUBUTTON PT_ADDBOOK	
40	RESOURCEFILE	SkinResources

	UPIMAGE	IDB_BUTTON_I 5
	DOWNIMAGE	IDB BUTTON 15 PRESS
	ROLLOVERIMAGE	
	INACTIVEIMAGE	IDB_BUTTON_I 5
5	Anchor	Topleft
	XPosition	BUTTON_ I 5_XPOS
	YPosition	BUTTON 15 YPOS
	ONSELECT	NAVIGATE ZAP_ADDRESSBOOK
	LOGNAME	"Рт_АррВоок"
10		
	/*******	***************************************
	[MENUBUTTON ST_WORD]	
	RESOURCEFILE	SkinResources
	UPIMAGE	IDB BUTTON 16
15	DOWNIMAGE	IDB_BUTTON_I 6_PRESS
	ROLLOVERIMAGE	·
	INACTIVEIMAGE	IDB_BUTTON_I 6
	Anchor	Topleft
	XPosition	BUTTON_I 6_XPOS
20	YPosition	BUTTON_I 6_YPOS
	ONSELECT	LAUNCH MS_WORD
	LOGNAME	"ST_WORD"
	[MENUBUTTON ST_EXCEL]	
	RESOURCEFILE	SkinResources
25	UPIMAGE	IDB_BUTTON_ I 7
	DOWNIMAGE	IDB_BUTTON_ I 7_PRESS
	ROLLOVERIMAGE	IDB_BUTTON_ I 7_OVER
	INACTIVEIMAGE	IDB_BUTTON_17
	Anchor	TOPLEFT
30	XPosition	BUTTON_ I 7_XPOS
	YPosition	BUTTON_I 7_YPOS
	ONSELECT	LAUNCH MS_EXCEL
	LOGNAME	"ST_EXCEL"
35	[MENUBUTTON ST_POWERPO	[тик
	RESOURCEFILE	SKINRESOURCES
	UPIMAGE	IDB_BUTTON_ I 8
	DOWNIMAGE	IDB_BUTTON_ I 8_PRESS
40	ROLLOVERIMAGE	IDB_BUTTON_I 8_OVER
40	INACTIVEIMAGE	IDB_BUTTON_I 8
	Anchor	TOPLEFT
	XPosition	BUTTON_I 8_XPOS
	YPosition	BUTTON_I 8_YPOS
A.E.	ONSELECT	LAUNCH MS_POWERPOINT
45	LOGNAME	"ST_POWERPOINT"

	/****		***************************************
	/// MEN	u HelpMenu]	,
	//		SKINRESOURCES
	'' 	NORMALIMAGE	IDB_DROPDOWN_BG
5	//	FOCUSIMAGE	IDB_DROPDOWN OVER
Ü	<i>"</i>	FONTNAME	MENUFONTNAME
	<i>"</i>	FONTSIZE	MENUFONTSIZE
	//	FONTSTYLE	MENUFONTSTYLE
	//	JUSTIFICATION	LEFT
10	"	DUSTIFICATION	LEFT
10	//MEN	UITEM HELPITEM_3]	
	//	LABEL	"HELP"
	//	MENU	HELPMENU
	//	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/EDSERVICES/UI/HELP"
15	"	ONSELECT	NAVIGATE HTTP://www.zarme.com/edservices/di/help
13	//IMEN	UITEM HELPITEM_2]	
	//IMEN	LABEL	"Customer Service Number"
	//	MENU	HELPMENU
	// //	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/EDSERVICES/UI/CUSTOMERSERVICE"
20	//	ONSELECT	NAVIGATE HTTP://www.zapme.com/edservices/ul/customerservice
20	//Mesi	UITEM HELPITEM [1]	
	//IMEN	LABEL	"FAO"
	• •		•
	// //	MENU OnSelect	HELPMENU NAVIGATE "HTTP://WWW.ZAPME.COM/EDSERVICES/UI/FAQ"
25	"	ONSELECT	NAVIGATE HTTP://www.zapme.com/edservices/di/pag
25	(Mesii)	BUTTON HELPBUTTON	
	LIMENU	RESOURCEFILE	SKINRESOURCES
		UPIMAGE	IDB BUTTON 19
		DOWNIMAGE	
30		ROLLOVERIMAGE	IDB_BUTTON_I 9_PRESS
30		INACTIVEIMAGE	/
		ANCHOR	IDB_BUTTON_ I 9  TOPLEFT
		XPosition	
		YPosition	BUTTON_I 9_XPOS BUTTON_I 9_YPOS
35	//	MENU	HELPMENU .
33	"	LOGNAME	"HELP"
		ONSELECT	NAVIGATE "HTTP://www.zapme.com/net/help.html"
		ONSELECT	NAVIGALE HITF.//WWW.ZAFME.COM/NEI/HELF.HIML
	/****	******	***************************************
40	•	YGROUP ZAPME_NG]	·
40	LINOTIF		SkinResources
		BGIMAGE .	
		ANCHOR	TOPLEFT
45		XPOSITION	NOTIFYGROUPLIVE_XPOS
70		YPosition	NOTIFYGROUPLIVE_YPOS

	WIDTH	NOTIFYGROUPLIVE_WIDTH
	HEIGHT	NOTIFYGROUPLIVE_HEIGHT
	ALIAS	ZAP_NOTIFY_GROUP_ZAPME
_	[NOTIFYITEM EMAIL_NI]	
5	NotifyGroup	ZAPME_NG
	ICON	"EMAILNOTIFICATION.AVI"
	· TITLE	"E-MAIL"
	Show	FALSE
	ONSELECT	LAUNCH ZAP_MAIL
10	ALIAS	ZAP_NOTIFY_ITEM_EMAIL
	/**********	***************************************
	[MENUBUTTON VOLUMEBUTT	ONI
	RESOURCEFILE	SKINRESOURCES
15	UPIMAGE	IDB_VOLUME
	DOWNIMAGE	IDB_VOLUME_PRESS
	ROLLOVERIMAGE	IDB_VOLUME_OVER
	INACTIVEIMAGE	IDB_VOLUME
	ANCHOR	TOPLEFT
20	XPosition	VOLUME_XPOS
	YPosition	VOLUME_YPOS .
	ONSELECT	LAUNCH VOLUME_CONTROL
	LOGNAME	"VOLUME"
25	/*******	***************************************
	[CLOCKFIELD CLOCKTIMEZON	ieField)
	XPosition	TIMEZONELIVE_XPOS - CLOCKLIVE_XPOS
	YPosition	TIMEZONELIVE_YPOS - CLOCKLIVE_YPOS
	WIDTH	TIMEZONELIVE_WIDTH
30	HEIGHT	TIMEZONELIVE_HEIGHT
	FONTNAME	MENUFONTNAME
	FONTSIZE	MENUFONTSIZE
	FONTSTYLE	MENUFONTSTYLE
	FONTCOLOR	MENUFONTCOLOR
35		
	[CLOCKFIELD CLOCKDATEFIE	LD]
	XPosition	DATELIVE_XPOS - CLOCKLIVE_XPOS
	YPosition	DATELIVE_YPOS - CLOCKLIVE_YPOS
	WIDTH	DATELIVE_WIDTH
40	HEIGHT	DATELIVE_HEIGHT
	FONTNAME	MENUFONTNAME
	FONTSIZE	MENUFONTSIZE
	FONTSTYLE	MENUFONTSTYLE
	FONTSTYLE FONTCOLOR	MENUFONTSTYLE  MENUFONTCOLOR

40

45

## XPosition TIMELIVE\_XPOS - CLOCKLIVE\_XPOS YPosition TIMELIVE YPOS - CLOCKLIVE YPOS TIMELIVE\_WIDTH WIDTH 5 TIMELIVE\_HEIGHT HEIGHT FONTNAME MENUFONTNAME FONTSIZE MENUFONTSIZE FONTSTYLE MENUFONTSTYLE FONTCOLOR MENUFONTCOLOR 10 [CLOCK THECLOCK] RESOURCEFILE SKINRESOURCES **BGIMAGE** IDB\_CLOCKLIVE TOPLEFT ANCHOR 15 XPosition CLOCKLIVE\_XPOS YPosition CLOCKLIVE\_YPOS TIMEZONE LOCAL SHOWSECONDS FALSE SET24HRMODE FALSE 20 SHOW4DIGITYEAR FALSE TIMEFIELD CLOCKTIMEFIELD DATEFIELD CLOCKDATEFIELD TIMEZONEFIELD CLOCKTIMEZONEFIELD 25 [MENU TIMEZONEMENU] RESOURCEFILE SKINRESOURCES NORMALIMAGE IDB\_DROPDOWN\_BG FOCUSIMAGE IDB DROPDOWN OVER FONTNAME MENUFONTNAME 30 FONTSIZE MENUFONTSIZE FONTSTYLE MENUFONTSTYLE JUSTIFICATION LEFT [MENUITEM TIMEZONEOPTION\_5] 35 "EXT" LABEL MENU TIMEZONEMENU ONSELECT SETTIMEZONE THECLOCK EXT [MENUITEM TIMEZONEOPTION\_4]

[CLOCKFIELD CLOCKTIMEFIELD]

LABEL MENU

ONSELECT

[MENUITEM TIMEZONEOPTION\_3]

LABEL

"CXT"

"MXT"

TIMEZONEMENU

SETTIMEZONE THECLOCK CXT

•	••	70.07.0046.00
	MENU	TIMEZONEMENU
	OnSelect	SETTIMEZONE THECLOCK MXT
	(Menultem TimeZoneOption	. 21
5	LABEL	"PXT"
· ·	MENU	TIMEZONEMENU
	. ONSELECT	SETTIMEZONE THECLOCK PXT
	ONSELECT	SETTMEZONE TREGLOCK FAT
	(MENUITEM TIMEZONEOPTION	
10	LABEL	"LOCAL"
	MENU	TIMEZONEMENU
	ONSELECT	SETTIMEZONE THECLOCK LOCAL
	[MENUBUTTON TIMEZONEBUT	TON]
15	RESOURCEFILE	SkinResources
	UPIMAGE	IDB_BUTTON_ 1 2
	DOWNIMAGE	IDB_BUTTON_ I 2_PRESS
	ROLLOVERIMAGE	IDB_BUTTON_ I 2_OVER
	INACTIVEIMAGE	IDB_BUTTON_1 2
20	Anchor	TOPLEFT
	XPosition	BUTTON_ I 2_XPOS
	YPOSITION	BUTTON_I 2_YPOS
	MENU	TIMEZONEMENU
	LOGNAME	"SetTimeZone"
25		,
	•	***************************************
	[MENUBUTTON MATH_SCIENC	CEBUTTON]
	RESOURCEFILE	SkinResources
	UPIMAGE	IDB_T2_A
30	DOWNIMAGE	IDB_T2_A_PRESS
		IDB_T2_A_OVER
	INACTIVEIMAGE	IDB_T2_A_SELECT
	Anchor	TOPLEFT
25	XPosition	T2_A_XPOS
35	YPosiπon	T2_A_YPOS
	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/UI/MATH_SCIENCE.HTML"
	ONSELECT	CALL FINDTEACHERORSTUDENTTT("MATH_SCIENCE")
	LOGNAME	"MATH_SCIENCE"
40	[MenuButton Liberal Art	rsButton1
	ResourceFile	SkinResources
	UPIMAGE	IDB_T2_B
	DOWNIMAGE	· IDB_T2_B_PRESS
	ROLLOVERIMAGE	IDB_T2_B_OVER
45	INACTIVEIMAGE	IDB_T2_B_SELECT
	MACHITEMAGE	.555_5_5_6666

	<b>A</b>	To al
	Anchor XPosition	TOPLEFT
		T2_B_XPOS
	YPOSITION	T2_B_YPOS  NAVIGATE "HTTP://WWW.ZAPME.COM/UI/LIBERALARTS.HTML"
5	ONSELECT	
3	ONSELECT	CALL FINDTEACHERORSTUDENTTT("LIBERAL_ARTS")
	LOGNAME	"LIBERAL_ARTS"
	(MENURUTTON SOCIAL STUD	nice Burrous
	(MENUBUTTON SOCIAL_STUD	SKINRESOURCES .
10	UPIMAGE	IDB_T2_C
.0	DOWNIMAGE	IDB_T2_C_PRESS
	ROLLOVERIMAGE	_ <del></del>
	INACTIVEIMAGE	IDB_T2_C_SELECT
	Anchor	TOPLEFT
15	XPosition	T2_C_XPOS
.0	YPOSITION	T2 C YPOS
	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/UI/SOCIALSTUDIES.HTML"
	ONSELECT	CALL FINDTEACHERORSTUDENTTT("SOCIAL_STUDIES")
	LOGNAME	"SOCIAL_STUDIES"
20	LOGIVANE	SOCIAL_STOBLES
	(MENUBUTTON REFERENCE_	ToolsButton)
	RESOURCEFILE	SKINRESOURCES
	UPIMAGE	IDB_T2_D
	DOWNIMAGE	IDB T2 D PRESS
25	Rolloverimage	
	INACTIVEIMAGE	IDB_T2_D_SELECT
	Anchor	 Topleft
	XPosition	T2_D_XPOS
	YPosition	T2_D_YPOS
30	OnSelect	NAVIGATE "HTTP://WWW.ZAPME.COM/UI/REFERENCETOOLS.HTML"
	ONSELECT	CALL FINDTEACHERORSTUDENTIT("REFERENCE_TOOLS")
	LOGNAME	"REFERENCE_TOOLS"
	[MENUBUTTON MULTIMEDIAB	[иотти
	RESOURCEFILE	SKINRESOURCES
35	UPIMAGE	IDB_T2_E
	DOWNIMAGE	IDB_T2_E_PRESS
	ROLLOVERIMAGE	IDB_T2_E_OVER
	INACTIVEIMAGE	IDB_T2_E_SELECT
	Anchor	· TOPLEFT
40	XPosition	T2_E_XPOS
	YPosition	T2_E_YPOS
	ONSELECT	NAVIGATE "HTTP://www.zapme.com/ui/multimedia.html"
	ONSELECT	CALL FINDTEACHERORSTUDENTTT("MULTIMEDIA")
	LOGNAME	"MULTIMEDIA"
45		

	/*******	***************************************
	[MENUBUTTON AFTER_SCHO	olButton]
	ResourceFile	SkinResources
	UPIMAGE	IDB_T2_F
5	DOWNIMAGE	IDB_T2_F_PRESS
·	ROLLOVERIMAGE	IDB_T2_F_OVER
	INACTIVEIMAGE	IDB_T2_F_SELECT
	Anchor	TOPLEFT
	XPosition	T2_F_XPOS
10	YPosition	T2_F_YPOS
	Show	FALSE
	ACTIVATE	FALSE
	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/UI/AFTERSCHOOL.HTML"
	ONSELECT	CALL FINDSTUDENTTT("AFTER_SCHOOL")
15	LOGNAME	"AFTER_SCHOOL"
	[MENUBUTTON YOUR_FUTUR	ЕВиттом]
	RESOURCEFILE	SkinResources
	UPIMAGE	IDB_T2_G
	DOWNIMAGE	IDB_T2_G_PRESS
20	ROLLOVERIMAGE	IDB_T2_G_OVER
	INACTIVEIMAGE	IDB_T2_G_SELECT
	ANCHOR	TOPLEFT
	XPosition	T2_G_XPOS
	YPosition	T2_G_YPOS
25	Show	FALSE
	ACTIVATE	FALSE
	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/UI/YOURFUTURE.HTML"
	ONSELECT	Call FindStudentTT("Your_Future")
	LOGNAME	"Your_Future"
30		
	/********	***************************************
	[MENUBUTTON CLASSROOM_	ToolsButton)
	RESOURCEFILE	SkinResources
	UPIMAGE	IDB_TEACHER_T2_F
35	Downimage	IDB_TEACHER_T2_F_PRESS
	ROLLOVERIMAGE	IDB_TEACHER_T2_F_OVER
	INACTIVEIMAGE	IDB_TEACHER_T2_F_SELECT
	Anchor	TOPLEFT
	XPosition	TEACHER_T2_F_XPOS
40	YPosition	TEACHER_T2_F_YPOS
	Show	FALSE
	ACTIVATE	FALSE
	ONSELECT	NAVIGATE "HTTP://www.zapme.com/ui/Yourclassroomtools.html"
4-	ONSELECT	CALL FINDTEACHERTT("CLASSROOM_TOOLS")
45	LOGNAME	"Classroom_Tools"

	[MENUBUTTON CAREER_CEN	[MenuButton Career_CenterButton]			
	ResourceFile	SkinResources			
	UPIMAGE	IDB_TEACHER_T2_G			
	DOWNIMAGE	IDB_TEACHER_T2_G_PRESS			
5	ROLLOVERIMAGE	IDB_TEACHER_T2_G_OVER			
	INACTIVEIMAGE	IDB_TEACHER_T2_G_SELECT			
	Anchor	TOPLEFT			
	XPosition	TEACHER_T2_G_XPOS			
	YPosition	TEACHER_T2_G_YPOS			
10	Show	FALSE			
	ACTIVATE	FALSE			
	ONSELECT	NAVIGATE "HTTP://WWW.ZAPME.COM/UI/CAREERCENTER.HTML"			
	ONSELECT	Call FindTeacherTT("Career_Center")			
	LOGNAME	"Career_Center"			
15					
	/*******	***************************************			
	(DYNAMICBILLBOARD THEBIL	LBOARD]			
	URL	IF (ISSCHOOL) DBB_NL_URL ELSE DBB_NL_URL_HOME			
00	Endlf				
20	Anchor	TOPLEFT			
	XPosition	DYNAMIC_BILLBOARD_XPOS			
	YPosition	DYNAMIC_BILLBOARD_YPOS			
	WIDTH	DYNAMIC_BILLBOARD_WIDTH			
25	HEIGHT	DYNAMIC_BILLBOARD_HEIGHT			
25	/	***************************************			
	·	Виттом]			
		SKINRESOURCES			
	UPIMAGE	IDB_BUTTON_ I I			
30	DOWNIMAGE	IDB BUTTON I I OVER			
00		IDB BUTTON I I PRESS			
	INACTIVEIMAGE	IDB BUTTON I I			
	ANCHOR	TOPLEFT			
	XPosition	BUTTON II XPOS			
35	YPosition	BUTTON II YPOS			
	Show	FALSE			
	ONSELECT	Logout			
	LOGNAME	"LogoutButton"			
	(MENUBUTTON EXITBUT	Inot			
40	ResourceFile	SkinResources			
	UPIMAGE	IDB BUTTON I I A			
	DOWNIMAGE	IDB BUTTON I IA OVER			
	ROLLOVERIMAGE	IDB_BUTTON I I A PRESS			
	INACTIVEIMAGE	IDB_BUTTON_IIA			
45	Anchor	TOPLEFT			
	XPosition .	BUTTON I I A XPOS			

	YPOSITION	BUTTON_I IA_YPOS
	Show	FALSE
	ONSELECT	Ехіт
	LOGNAME	"ExitButton"
5	/********	**************
	[FUNCTION TURNONSTUDENTS]	
	CALL	CHANGESTUDENTSTATUS (SHOW, ACTIVATE)
	ENDFUNCTION	
10	(FUNCTION TURNOFFSTUDENTS)	
	CALL	CHANGESTUDENTSTATUS (HIDE , DEACTIVATE)
	ENDFUNCTION	
	[FUNCTION CHANGESTUDENTSTATUS	(SH , AD)]
15	SH	YOUR FUTUREBUTTON
	SH	- AFTER SCHOOLBUTTON
	AD	YOUR FUTUREBUTTON
	AD	AFTER_SCHOOLBUTTON
	ENDFUNCTION	_
20		
	[FUNCTION TURNONTEACHERS]	
	CALL	CHANGETEACHERSTATUS (SHOW, ACTIVATE)
	ENDFUNCTION	
25	[FUNCTION TURNOFFTEACHERS]	
	CALL	CHANGETEACHERSTATUS (HIDE , DEACTIVATE)
	ENDFUNCTION	
	- [FUNCTION CHANGETEACHERSTATUS	(SH , AD)]
30	· SH	CLASSROOM_TOOLSBUTTON
	SH	CAREER_CENTERBUTTON
	AD	CLASSROOM_TOOLSBUTTON
	AD	CAREER_CENTERBUTTON
	ENDFUNCTION	
35		
	[FUNCTION ACTIVATEDESKTOP]	
	CALL CHANGEDESKTOPST	ATUS (SHOW, ACTIVATE)
	ENDFUNCTION	
40	(FUNCTION DEACTIVATEDESKTOP)	
	CALL CHANGEDESKTOPST	ATUS (HIDE, DEACTIVATE)
	ENDFUNCTION	
	[FUNCTION CHANGEDESKTOPSTATUS	(SH , AD)]
45	AD	CW_EMAIL

45

-57-AD CW\_ADDBOOK ΑD CW\_CALENDAR ΑD CW NEWSLETTER ΑD HISTORYBUTTON 5 AD **OPENAPPLICATIONS BUTTON** ΑD BOOKMARKSBUTTON ΑD AB SEARCHENGINE I AD AB\_SEARCHENGINE 2 AD PT EMAIL 10 AD PT\_CALENDAR PT\_ADDBOOK ΑD ΑD ST\_WORD ΑD ST\_EXCEL ST\_POWERPOINT ΑD 15 ΑD HELPBUTTON ΑD TIMEZONEBUTTON ΑD VOLUMEBUTTON ΑD MATH\_SCIENCEBUTTON AD LIBERAL\_ARTSBUTTON 20 ΑD SOCIAL\_STUDIESBUTTON ΑD REFERENCE\_TOOLSBUTTON ΑD MULTIMEDIABUTTON SH EMAIL\_NI ENDFUNCTION 25 (FUNCTION SETUPDESKTOP) HIDE EXITBUTTON LOGOUTBUTTON Show ACTIVATEDESKTOP CALL 30 SETDBBURL THEBILLBOARD IF (ISSCHOOL) DBB\_URL ELSE DBB\_URL\_HOME ENDIF SETTIMEZONE THECLOCK LOCAL LAUNCH ZAP\_MAIL 35 IF (USERROLE == "|" | | USERROLE == "2") CALL TURNONTEACHERS ELSE IF (USERROLE == "3") CALL **TURNONSTUDENTS** 40 ENDIF ENDFUNCTION [FUNCTION RESETDESKTOP]

LOGOUTBUTTON

DEACTIVATEDESKTOP

**EXITBUTTON** 

HIDE

SHOW

CALL



Fue Feu stronde



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	DBB_N	SETDBBURL L_URL_HOME ENDIF	THEBILLBOARD	lF	(IsSchool)	DBB_NL_URL	ELSE
		SETTIMEZONE	THECLOCK LOCAL				
		CALL	TURNOFFTEACHER	:5			
5		CALL	TURNOFFSTUDENT	s			
		CLOSE	ZAP_MAIL				
		IF (Exists (ZapMeTeachers	STUDENTTT))				
		DELETE ZAPMETE	ACHERSTUDENTTT				
10		Endif					
	EndFun	CTION					
	(STARTU	IP)					
		CALL	RESETDESKTOP				
		Launch	ZAP_LOGIN				
15							
	[LOGIN]						
		CALL	SETUPDESKTOP	•			
	[Logou	τì					
20	.20000	CALL	ResetDesktop				
					*		•

Attorney Docket No.: ZAPME-01013US1 SRM/KFK kfk/zapme/1013us1/appl.wpd